

CLAIMS:

1. A ~~novel~~ crystal of N-[N-(3,3-dimethylbutyl)-L- α -aspartyl]-L-phenylalanine methyl ester showing characteristic peaks in diffractive X-ray at diffraction angles (2θ , CuK α ray) of at least 7.1°, 19.8°, 17.3° and 17.7°.

2. A process for producing the novel crystal according to ~~claim~~ ^{claim} 1, which comprises drying N-[N-(3,3-dimethylbutyl)-L- α -aspartyl]-L-phenylalanine methyl ester showing characteristic peaks in diffractive X-ray at diffraction angles (2θ , CuK α ray) of at least 6.0°, 24.8°, 8.2° and 16.5° until its water content is reduced to less than 3 % by weight.

3. A granule of the ~~novel~~ crystal of N-[N-(3,3-dimethylbutyl)-L- α -aspartyl]-L-phenylalanine methyl ester according to claim 1, having a particle size in the range of 100 to 1,400 μm .